Center Innovation Fund: GSFC CIF

Infrared Microscope Development for Instrument Component and Geological Sample Characterization



Completed Technology Project (2011 - 2012)

Project Introduction

Repeatability is essential in laboratory measurements and evaluations, thus a stable, permanent microscope structure will insure reliable results for instrumentation components or geological samples of interest. The Infrared Microscope will be built at GSFC and used as instrument for scientific investigations and instrument development. This IRAD would be used to create a stable structure to measure remote sensing/spacecraft instrumentation components and geological samples of interest.

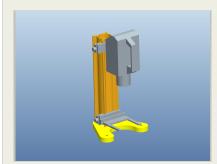
The laboratory Infrared Microscope that will be built will measure components for remote sensing instrumentation and measure geological samples that would represent samples collected during field campaigns and remote sensing missions. Infrared Microscopy will assure NASA provides quality components and instruments for future remote sensing missions and insure integrity of the instrumentation built. The quality control of instrument components reduces risk and this can be incorporated into a spaceflight mission proposal as a pathway to mitigate risk.

Anticipated Benefits

N/A

Primary U.S. Work Locations and Key Partners





Project Image Infrared Microscope Development for Instrument Component and Geological Sample Characterization

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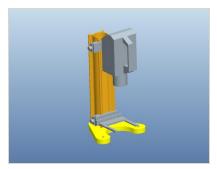
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Organizations Performing Work	Role	Туре	Location
☆Goddard Space Flight Center(GSFC)	Lead	NASA	Greenbelt,
	Organization	Center	Maryland

Primary U.S. Work Locations

Maryland

Images



5238.jpg

Project Image Infrared Microscope Development for Instrument Component and Geological Sample Characterization (https://techport.nasa.gov/imag e/1322)

Project Website:

http://www.nasa.gov/centers/goddard/home/index.html

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Center Innovation Fund: GSFC CIF

Project Management

Program Director:

Michael R Lapointe

Program Manager:

Peter M Hughes

Project Manager:

Terry Doiron

Principal Investigator:

Ramsey L Smith

Co-Investigators:

Ari D Brown Matthew T Showalter

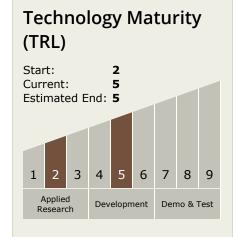


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Technology Areas

Primary:

